Hartmut Esser und Kerstin Hoenig

Ability- oder Nobility-Tracking?

Die theoretische und empirische Revision einer verbreiteten Auffassung Ein Vergleich der 16 deutschen Bundesländer mit den Daten der "National Educational Panel Study" (NEPS).

University of Mannheim
Faculty for Social Sciences
Mannheim Centre for European Social Research

Seminar "Analytische Soziologie: Theorie und empirische Anwendungen" Venedig 12. November 2018

The Standardposition

Stronger educational inequality and inequity ...

"... hat early **tracking** is associated ... hat early **tracking** is associated educational **inequality** with particular **disadvantage** for **lower class** and **migrant** families."

(Müller&Kogan 2)

"Countries with a tracked) education

... without gains in efficiency!

ed (school-type ligher levels of

inequality of educational opportunity by social class and race/ethnicity." (van de Wherfhor

Really?

The "Model of Ability Tracking"

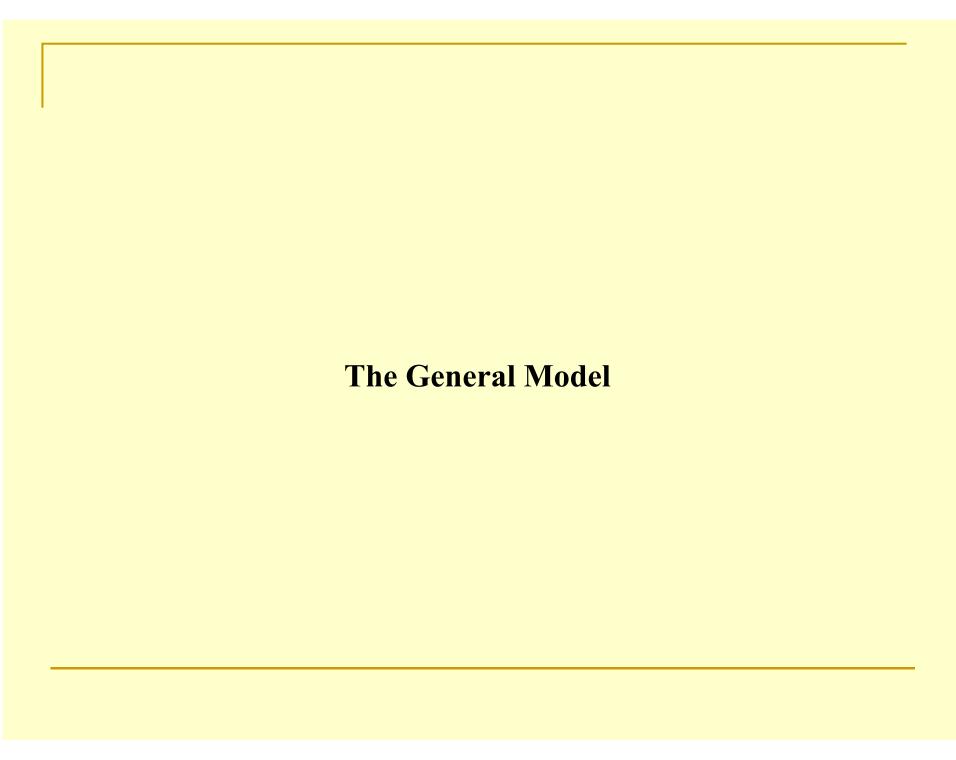


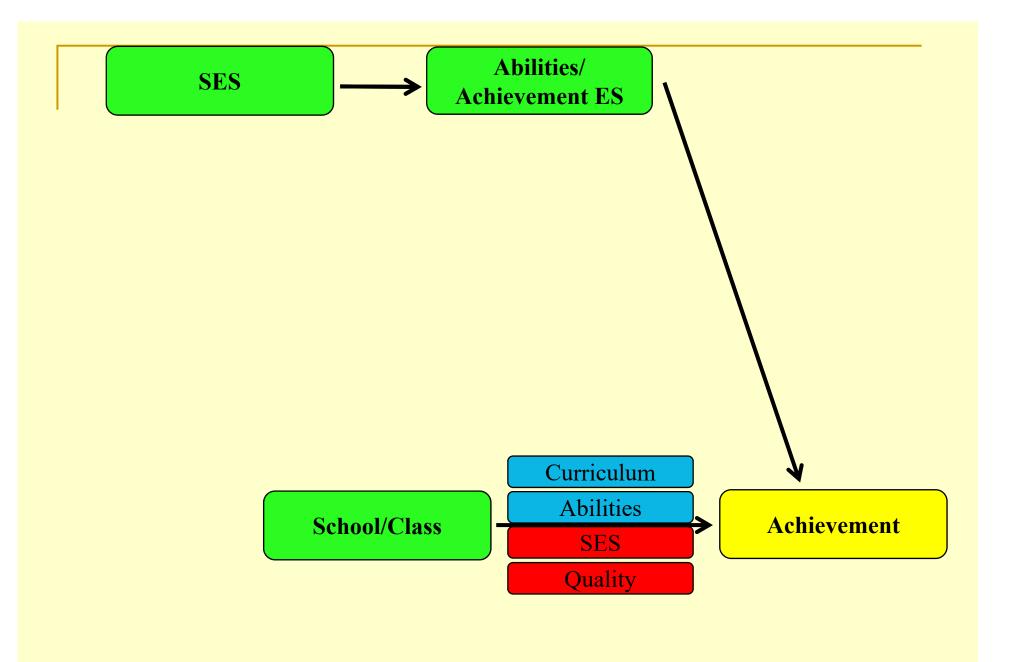


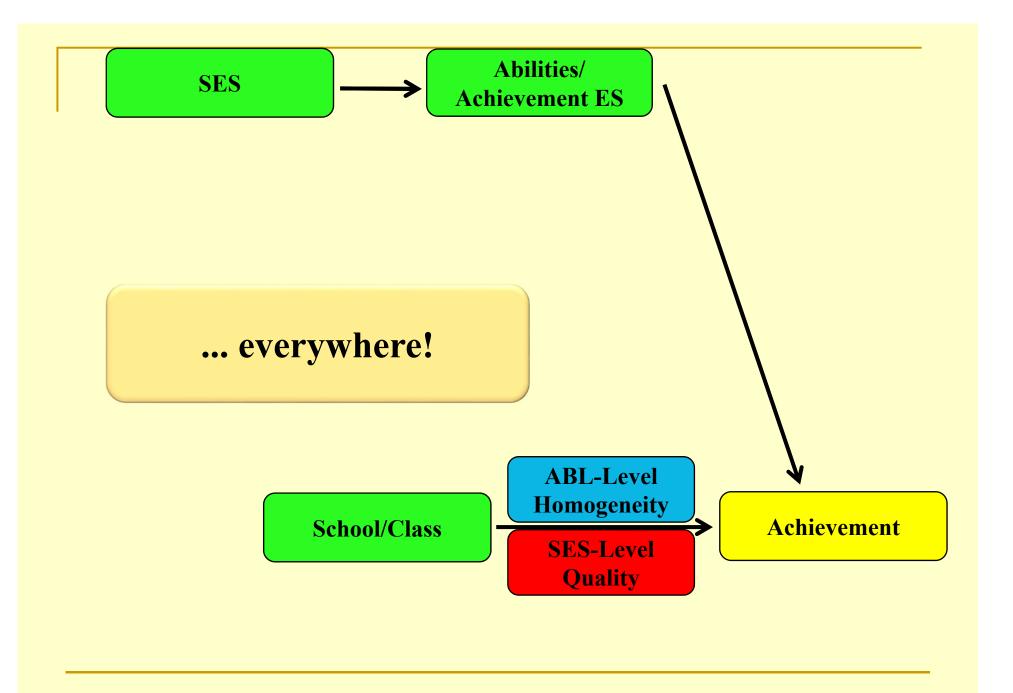




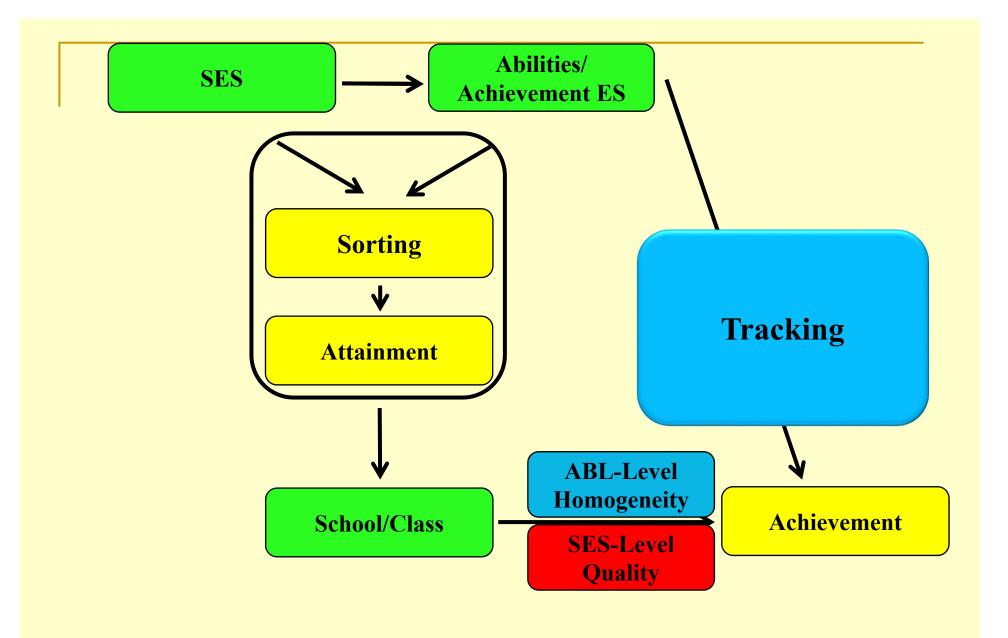


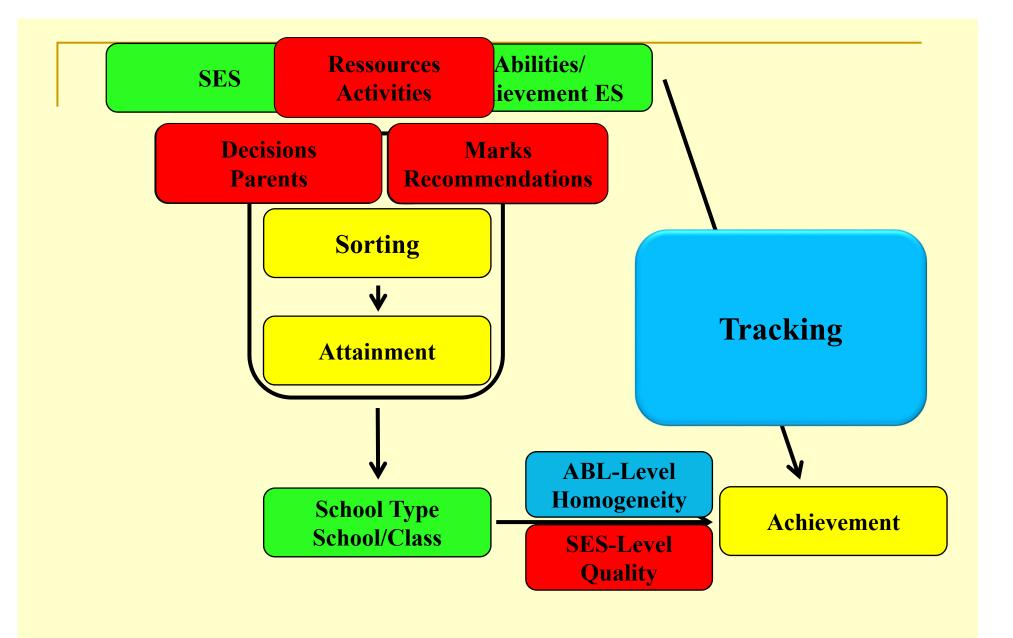


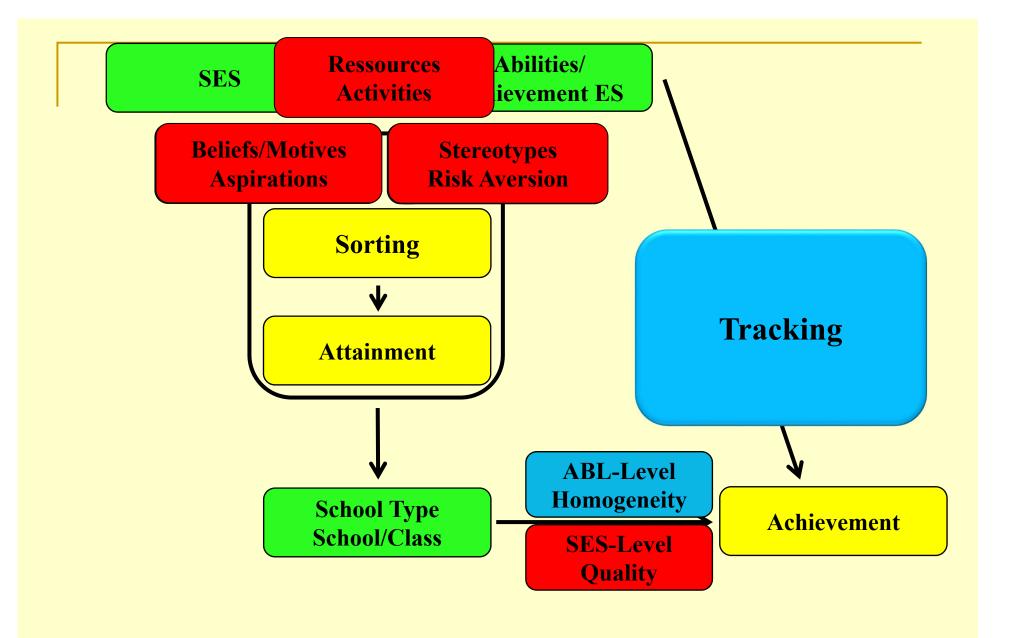


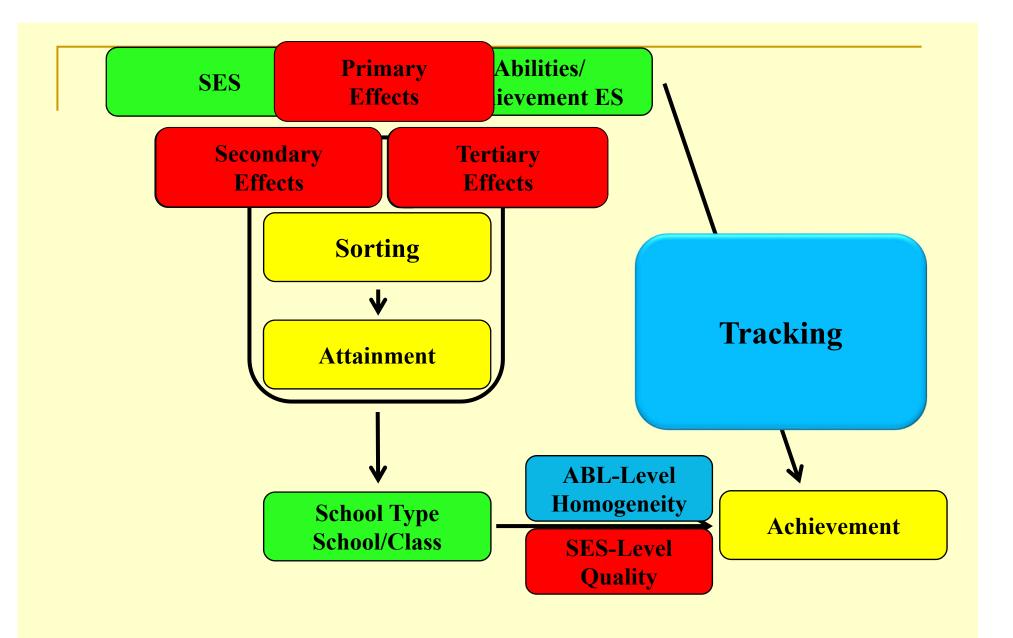


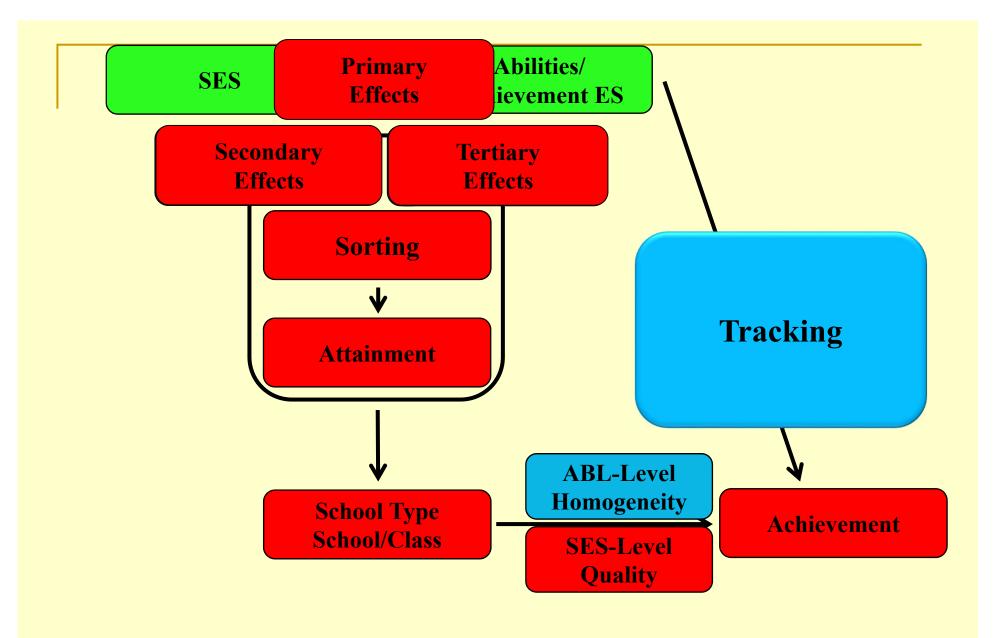
Ability Tracking 1: Standardposition



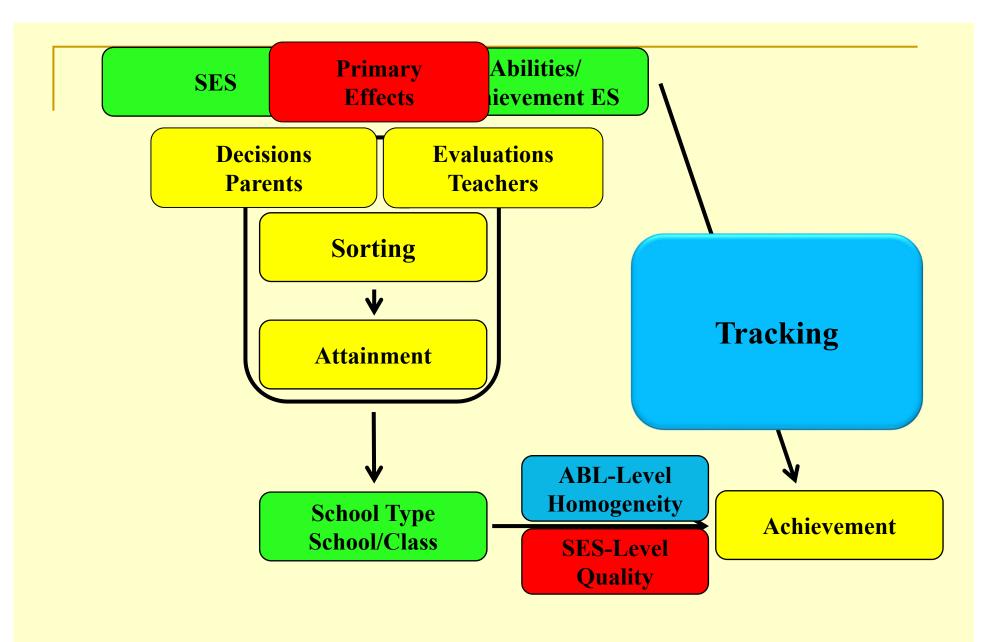


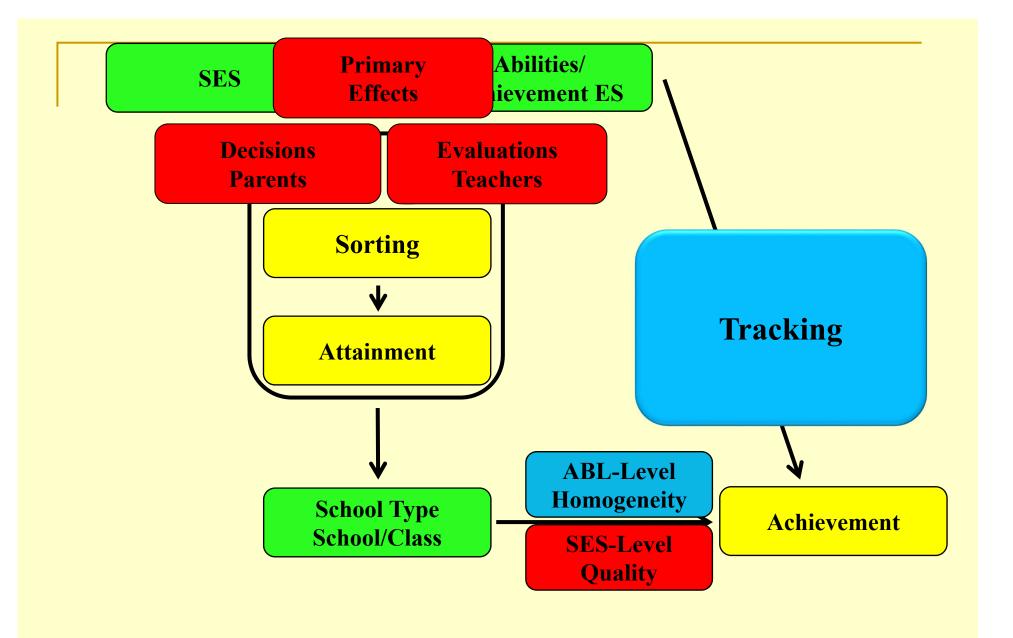


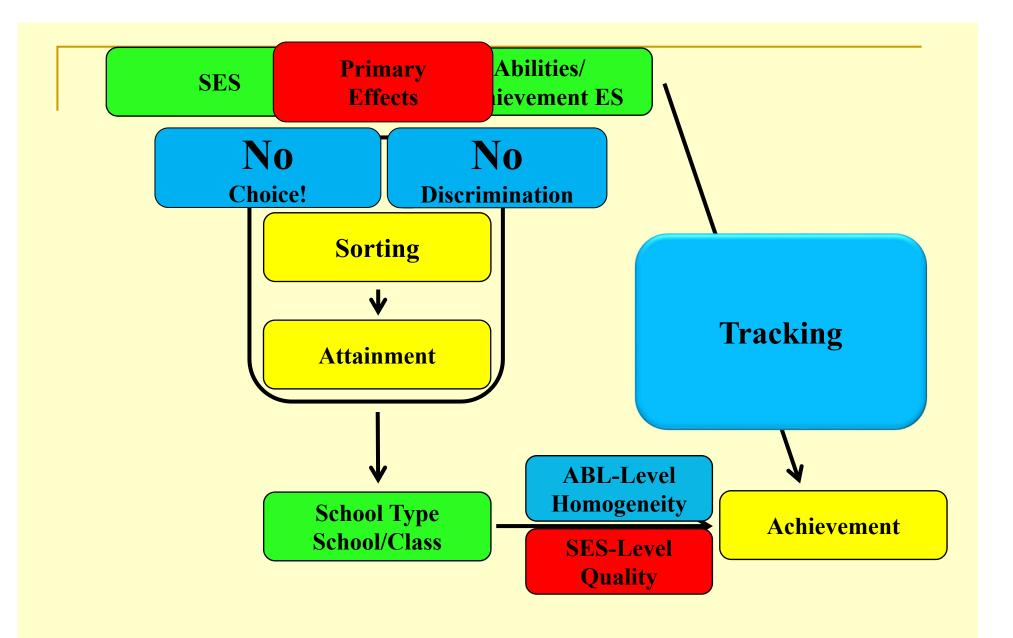


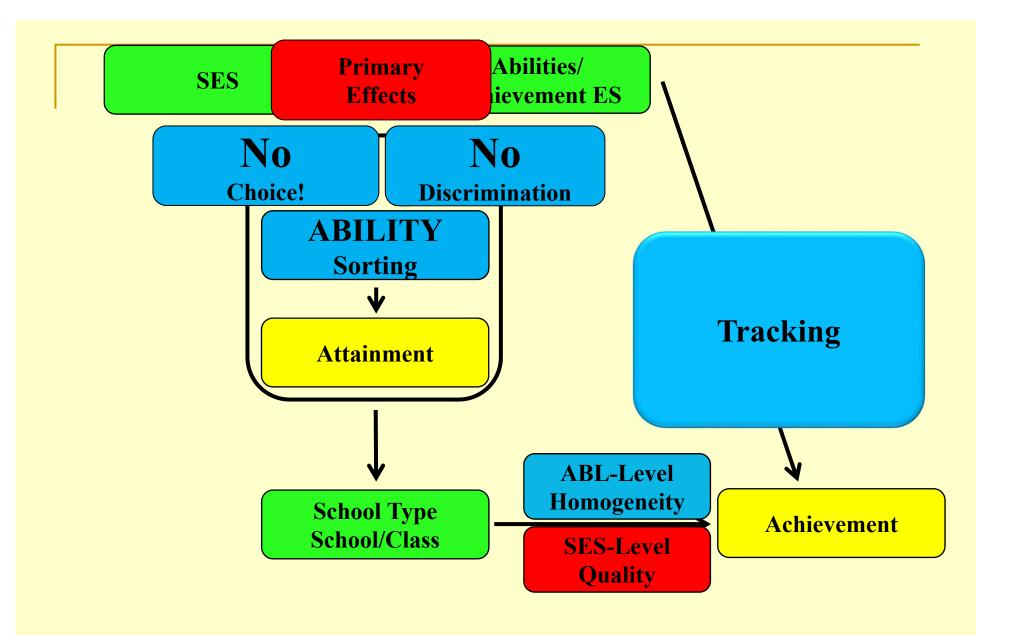


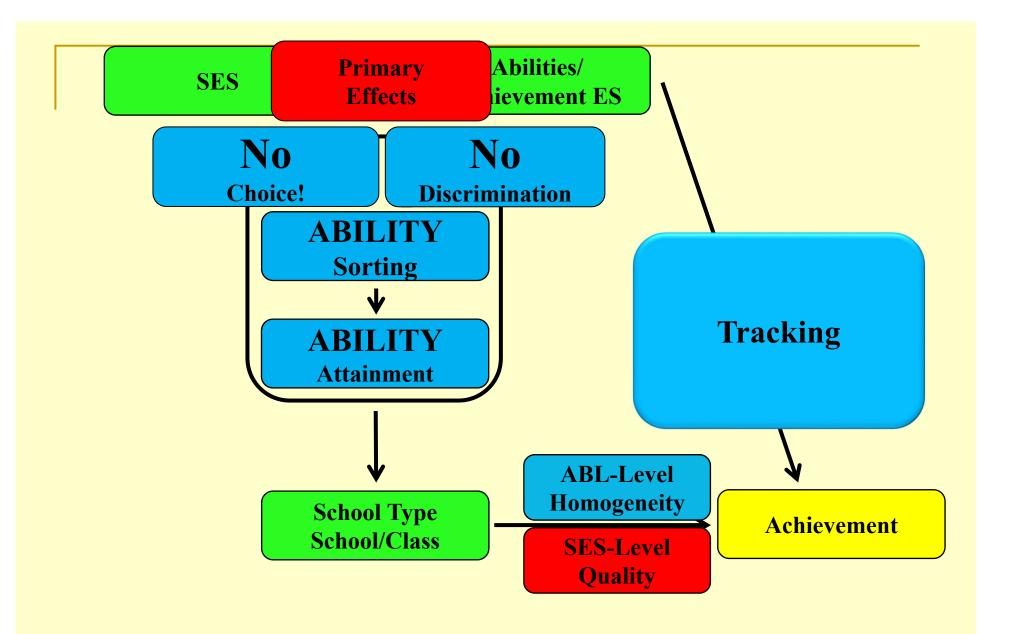
Ability Tracking 2: "Meritocratic" Sorting

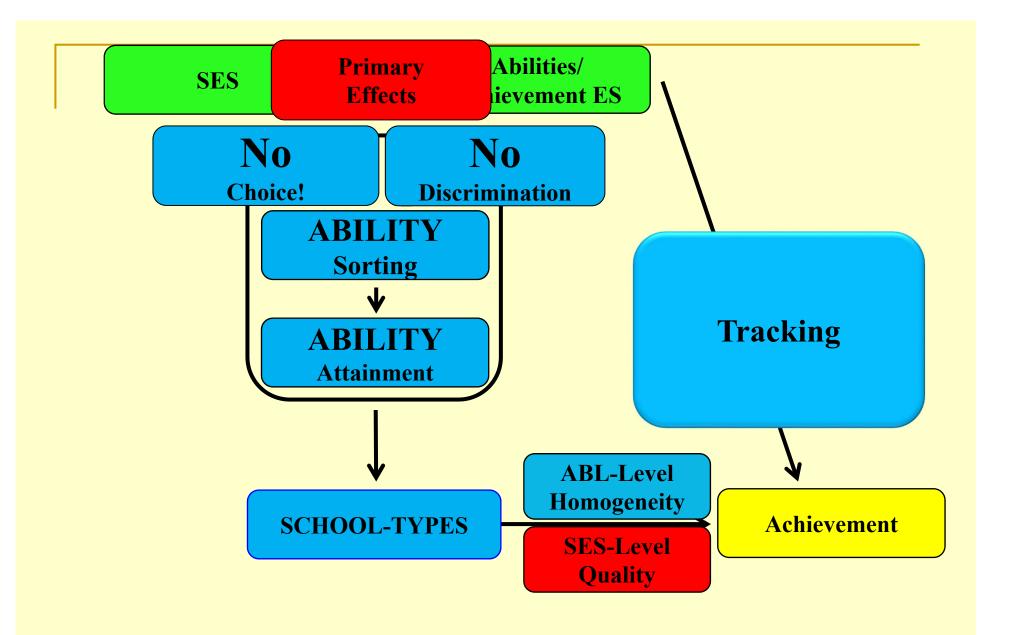


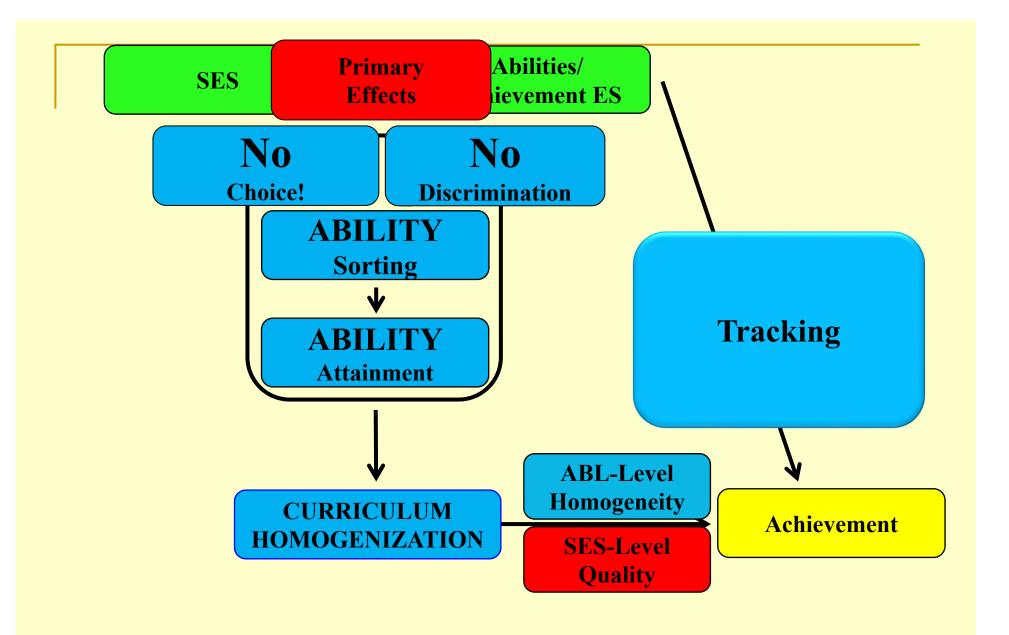


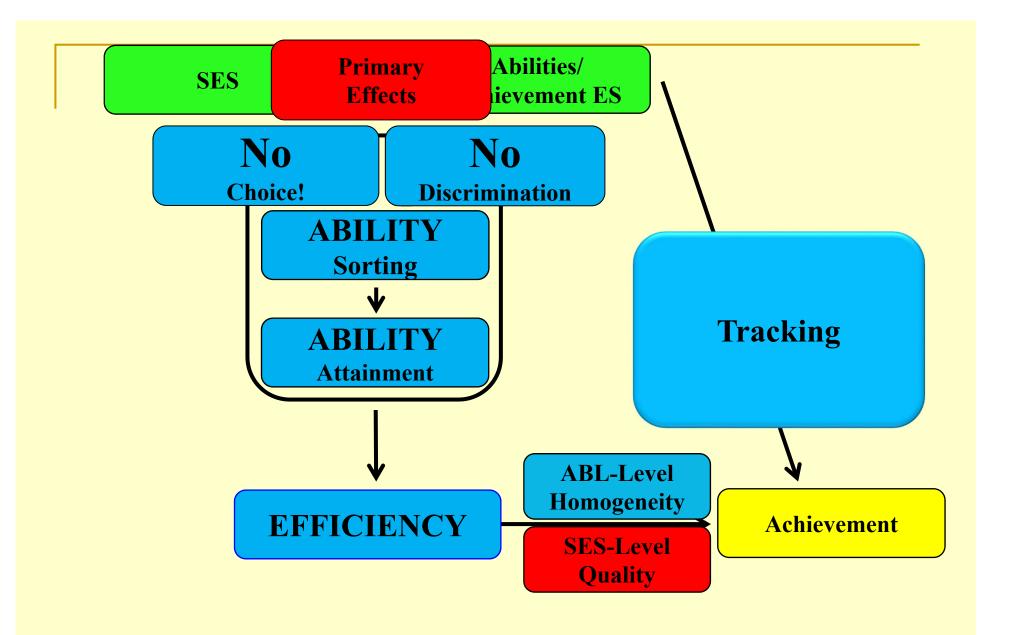


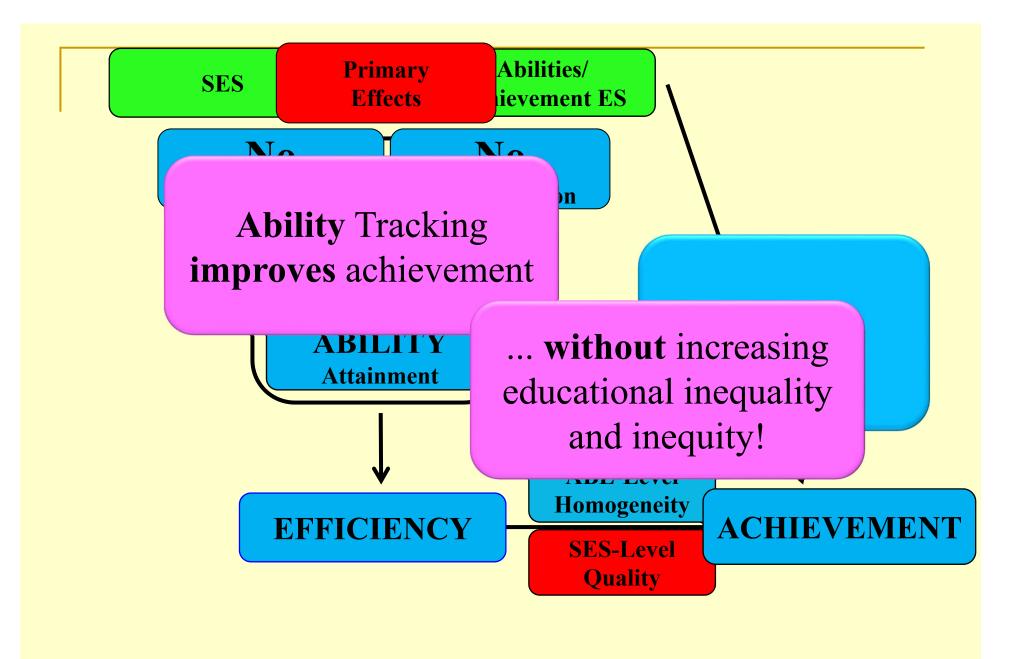


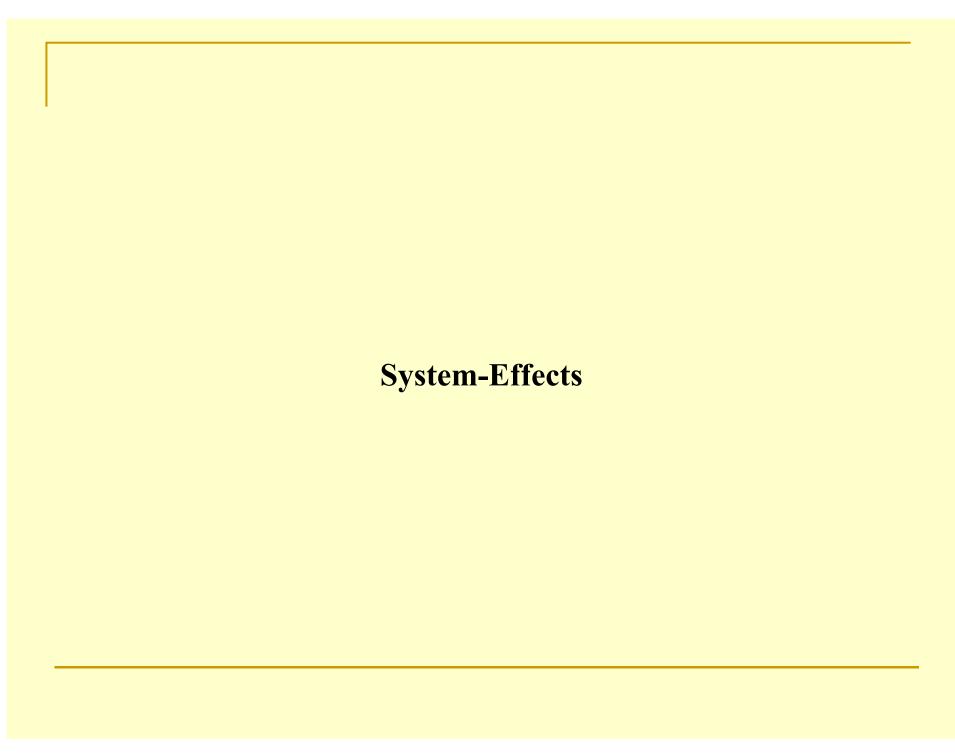


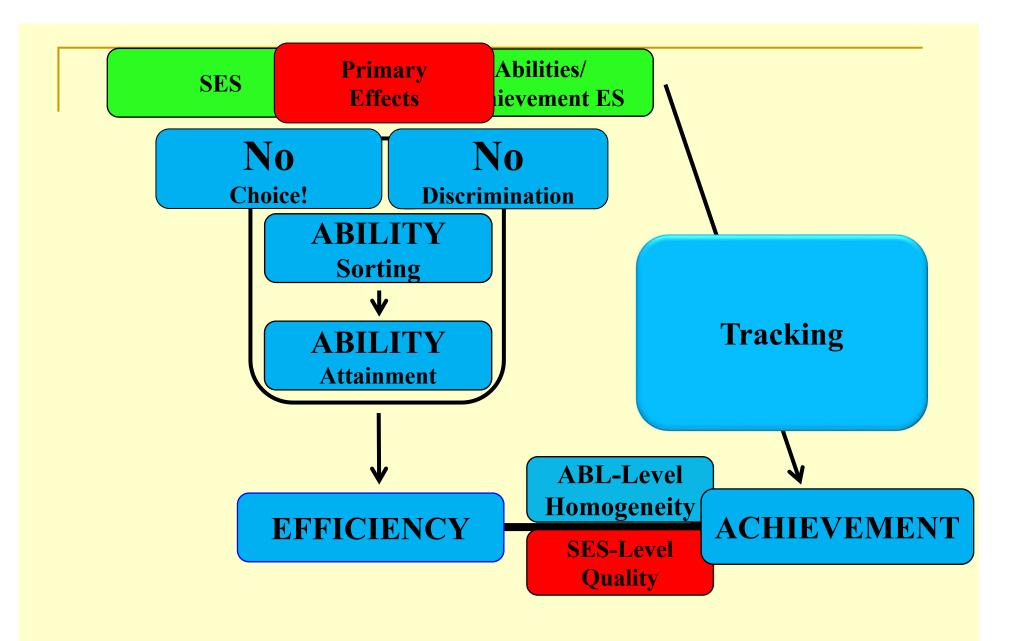


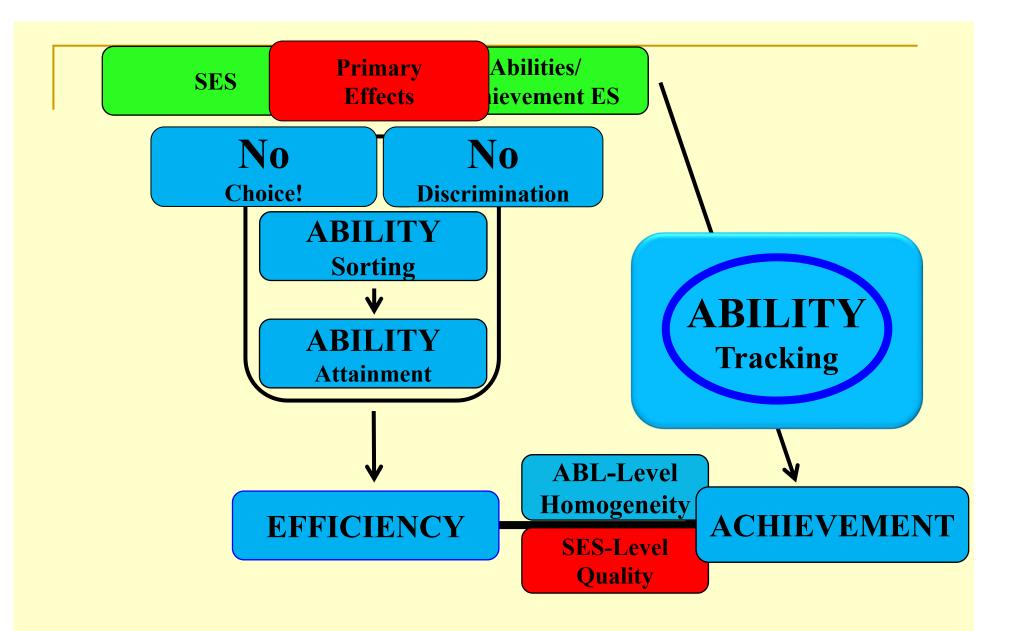


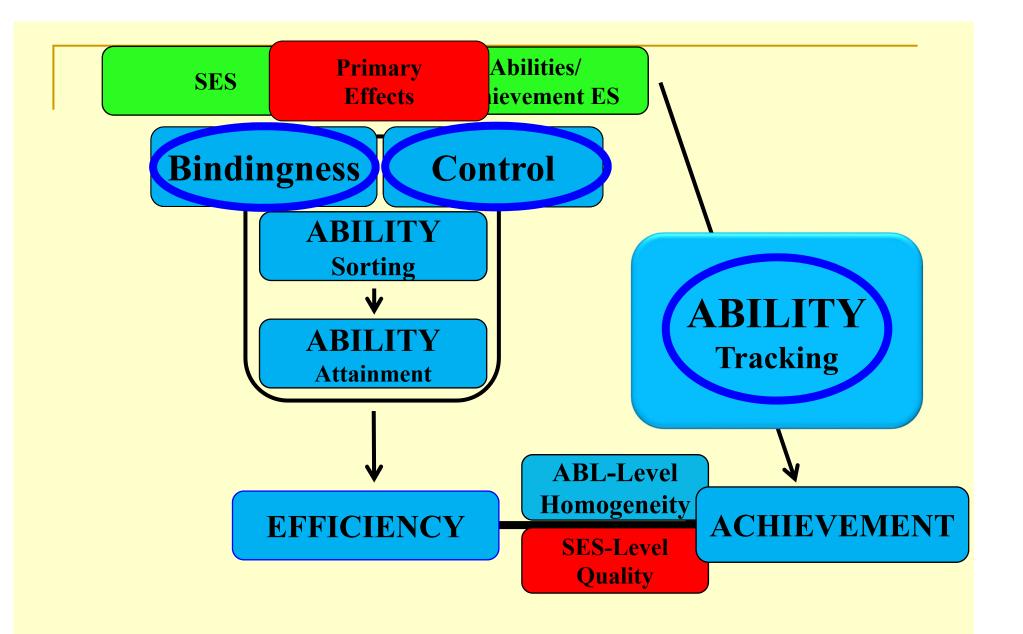








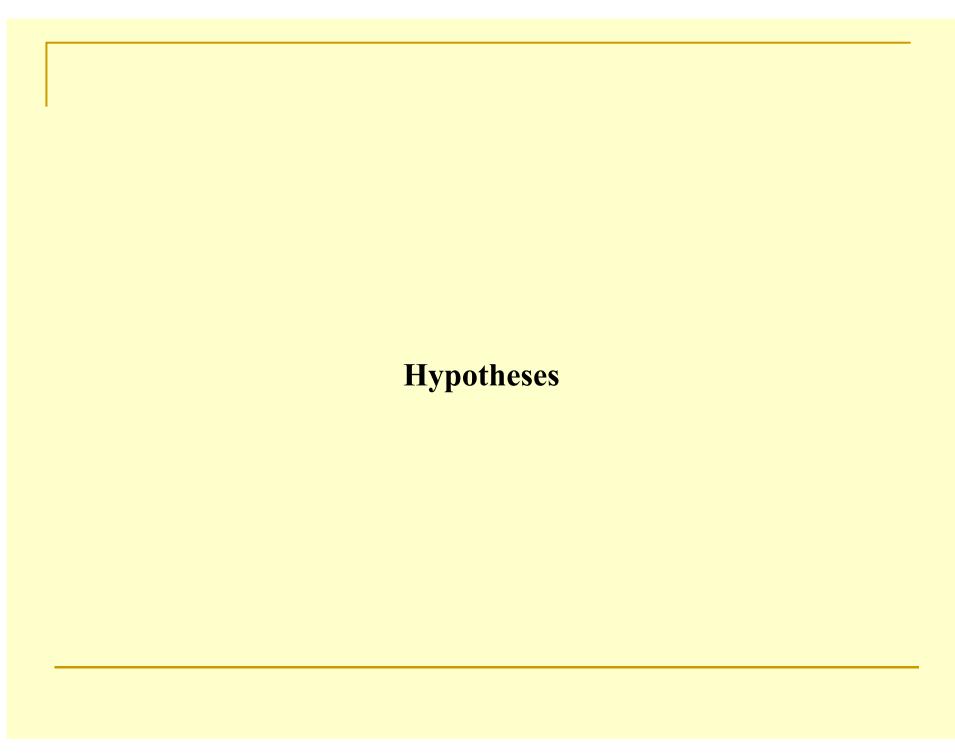




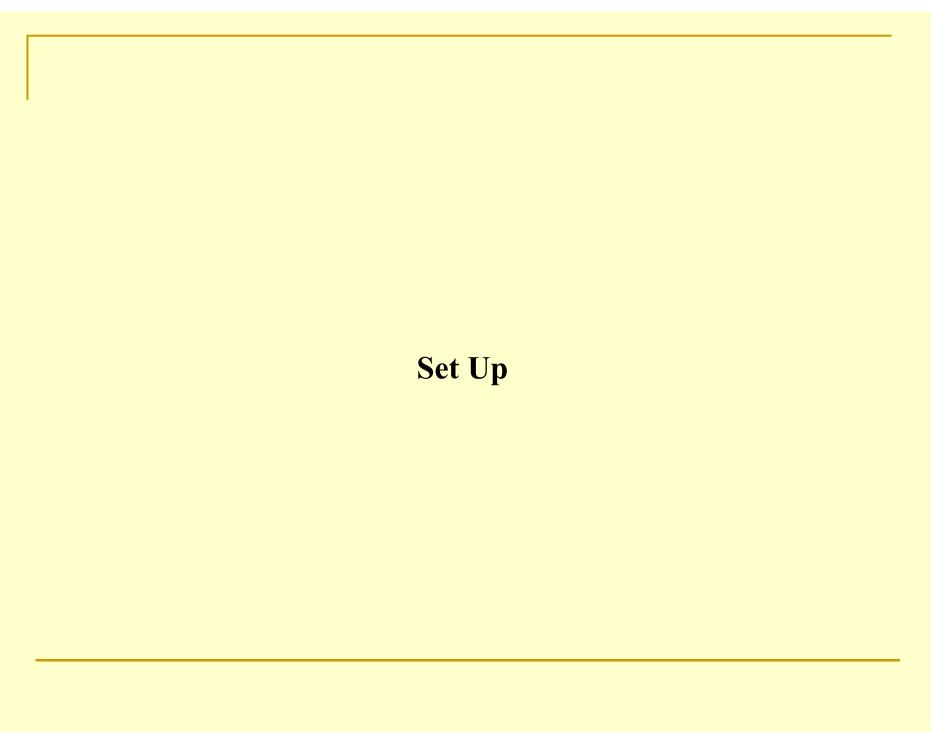
Ability Tracking **improves** achievement

... without increasing educational inequality and inequity ...

... if **ABILITY**Tracking!

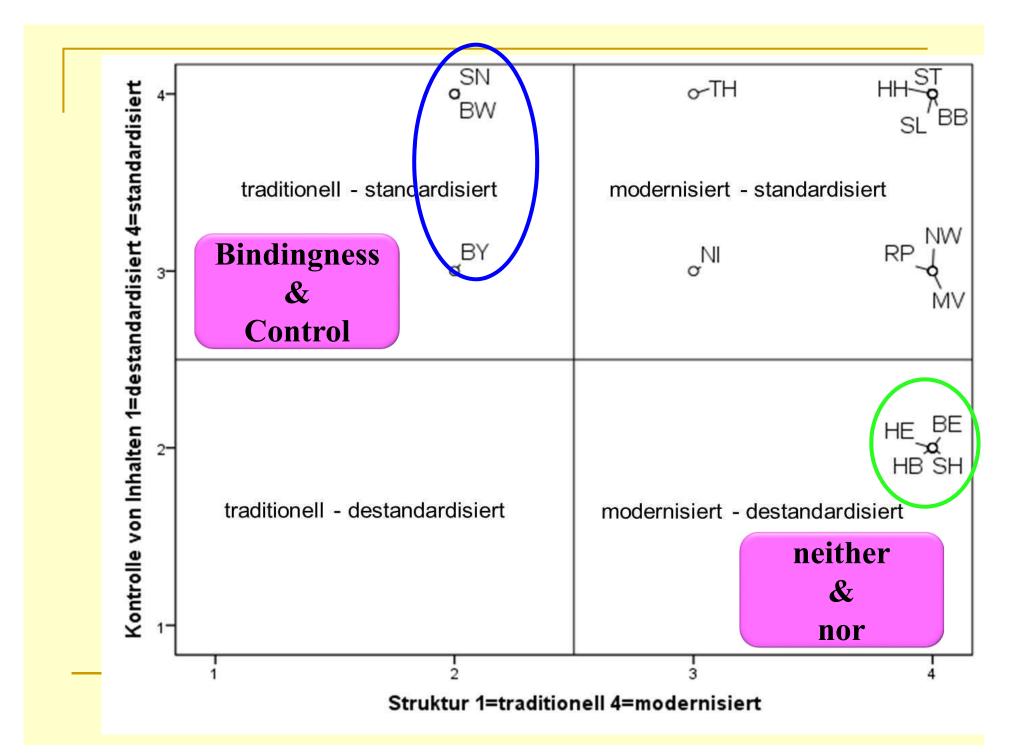


		Attainment	Homogenization	Achievement
General Effects		MoAbiT	MoAbiT	MoAbiT
Social background	SES	+		+
Abilities	ABL	+		+
Achievement before	ACE	+		+
Marks/Recommend.	REC	+		
Aspirations	ASP	+		
School LevelSES	LSES			+
School LevelABL	LABL			+
School HomABL	HABL			
Schooltype/Track	GYM			+
System-Effects				
Tracking Interaction-Effects	T SES *T LSES *T ABL *T LABL*T HABL*T	<u>≤0</u> 0 +	+	≥0 0 0 + + +



German Country States and their Educational Systems

von Below 2006, 2011 Helbig&Nikolai 2015 Büchler 2016



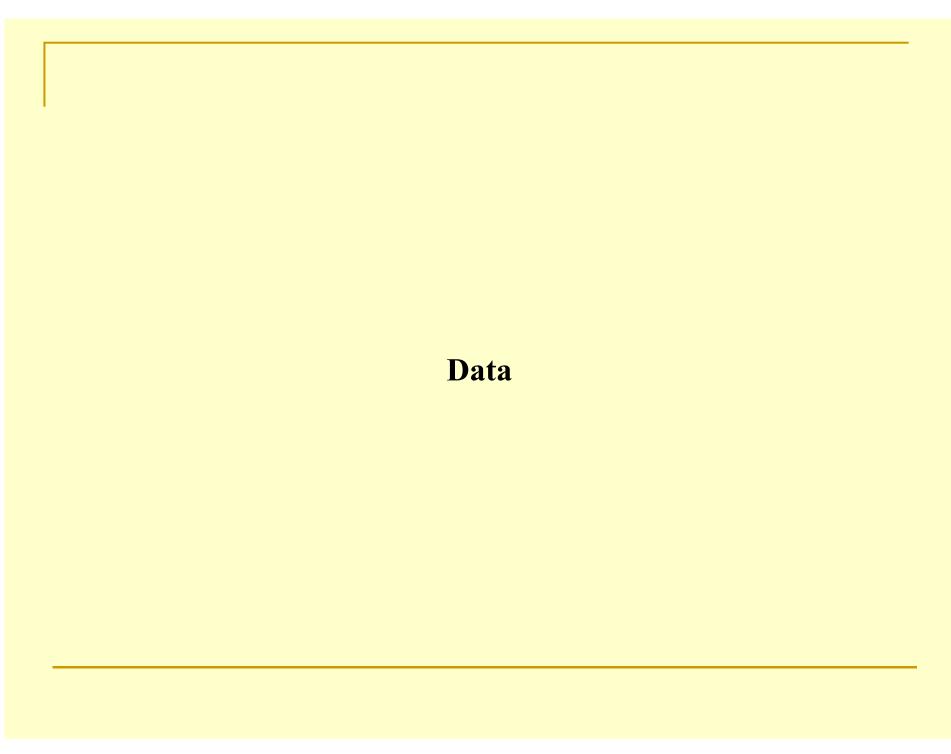
Index (Helbig&Nikolai 2015, Abb. 28: 286)

- 2 ---
- 3 BE, HB, HE, SH
- 4 NW, RP, MV
- 5 BB, HH, NI, SL, ST, TH
- 6 BY
- 7 BW, SN
- 8 ---

Index (Helbig&Nikolai 2015, Abb. 28: 286)

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2 ---
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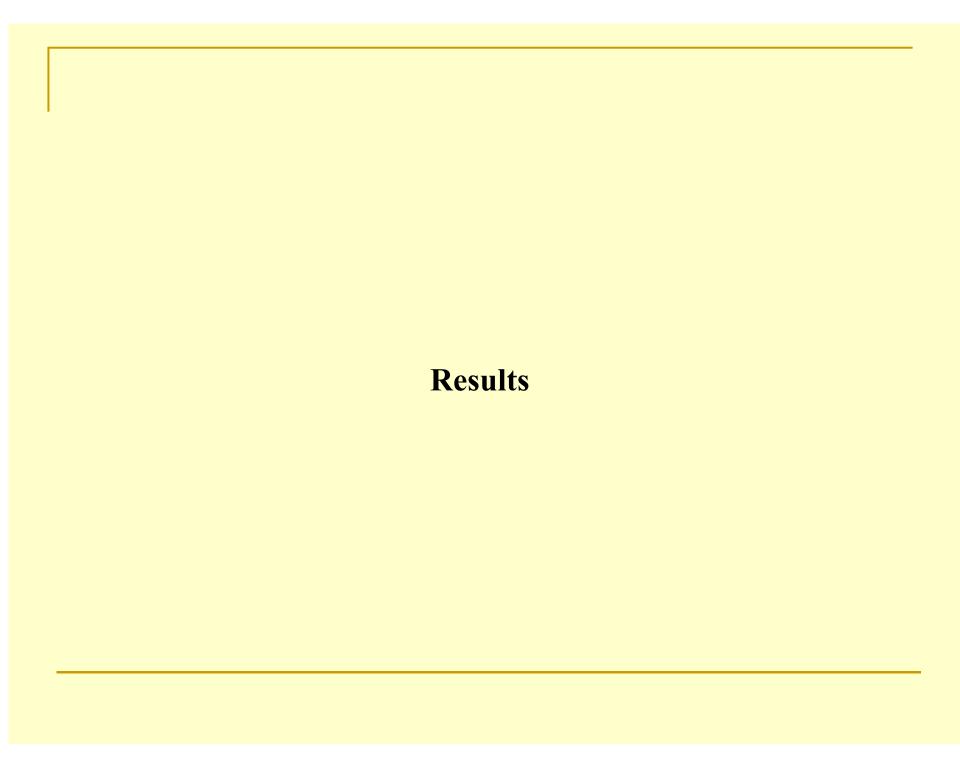
- 3 **BE, HB, HE, SH**
- 4 NW, RP, MV
- 5 BB, HH, NI, SL, ST, TH
- 6 **BY**
- 7 **BW**, **SN**
- 8 ---



NEPS

("National Educational Panel Study")

Starting Cohort 3 three waves 5th, 6th and 7th grade 2010, 2011, 2012



- 1. Attainment
- 2. Homogenization
- 3. Achievement
- 4. Homogeneity&Homogenization
- 5. Who Gains?

1. Attainment

- 2. Homogenization
- 3. Achievement
- 4. Homogeneity&Homogenization
- 5. Who Gains?

		Attainment		Homogenization		Achievement	
General Effects		MoAbiT	NEPS				
Social background	SES	+	0.016				
Abilities	ABL	+	•••				
Achievement before	ACE	+	0.555				
Marks/Recommend.	REC	+	2.461				
Aspirations	ASP	+	3.419				
School LevelSES	LSES						
School LevelABL	LABL						
School HomABL	HABL						
Schooltype/Track	GYM						_
System-Effects					no change		
Tracking	T	≤0	-0.438		of SES-influence		
	SES *T	0	0.009	4			,
	LSES *T				_		
Interaction-Effects -	ABL *T	+	0.775	+		ise of ACE-	
	LABL*T				in	fluence	
	HABL*T						<i>)</i>
$\overline{\mathbb{R}^2}$			0.59				
N			3150				

- 1. Attainment
- 2. Homogenization
- 3. Achievement
- 4. Homogeneity&Homogenization
- 5. Who Gains?

		Attainment	Homogenization	Achievement
General Effects			MoAbiT NEPS	
Social background	SES			
Abilities	ABL			
Achievement before	ACE			
Marks/Recommend.	REC			
Aspirations	ASP	increase of		
School LevelSES	LSES	ABL -Homogeneit	v	
School LevelABL	LAB	and the second s		
School HomABL	HABL			
Schooltype/Track	GYM			
System-Effects				
Tracking	T		+ 0.002	
	SES *T			
	LSES *T			
Interaction-Effects -	ABL *T			
	LABL*T			
	HABL*T			
$\overline{\mathbb{R}^2}$			0.04	
N			2717	

- 1. Attainment
- 2. Homogenization
- 3. Achievement
- 4. Homogeneity&Homogenization
- 5. Who Gains?

		Attainment	Homogenization	Achiev	ement
General Effects				MoAbiT	NEPS
Social background	SES			+	0.008
Abilities	ABL			+	1.744
Achievement before	ACE			+	•••
Marks/Recommend.	REC				
Aspirations	ASP				
School LevelSES	LSES			+	0.023
School LevelABL	LABL			+	-0.640
School HomABL	HABL	no ch	nange		
Schooltype/Track	GYM	of SES-in	•	+	0.625
System-Effects					
Fracking	T			≥0 ▲	-0.236
	SES *T			0	0.000
	LSES *T			0	-0.002
Interaction-Effects -	ABL *T			+	-0.062
	LABL*T			+	0.421
	HABL*T		increase of		-
\mathbb{R}^2			BL-influence		0.52
N					2717



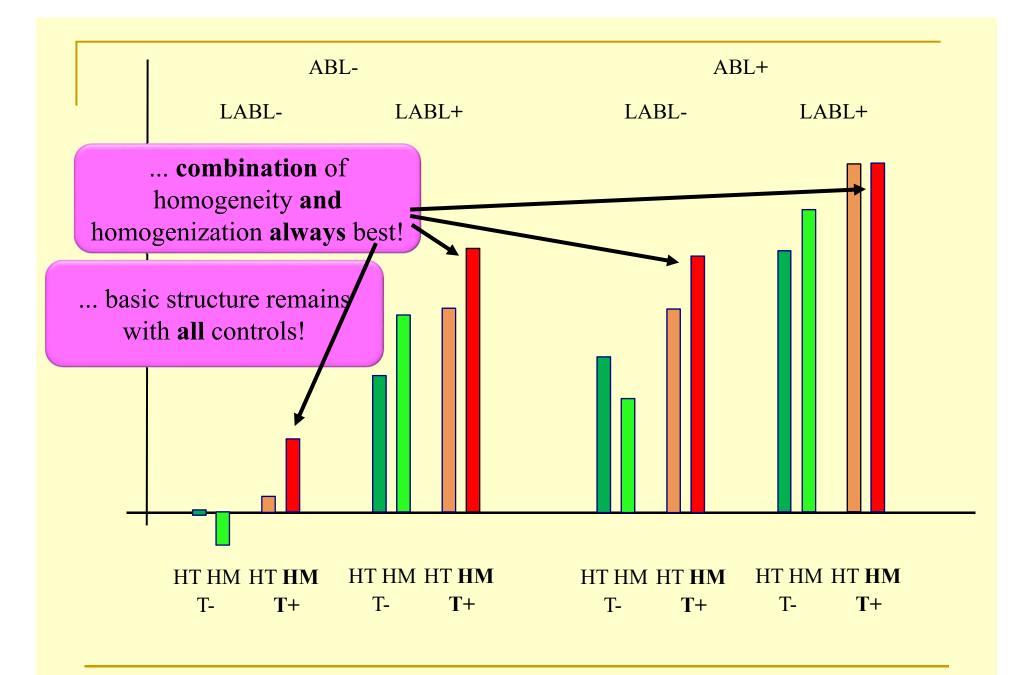
Gener Social Abilit Achie Market Ability Tracking improves achievement Achie Market Ability Tracking 1016 555			without increasing educational inequality and inequity			
Marks/Recommend. Aspirations	ASP	+	2.461 3.419			
School LevelSES School LevelABL School HomABL	LSES LABL HABL				+ +	0.023 -0.640
Schooltype/Track	GYM				+	0.625
System-Effects						
Tracking SES *T NSES *T ABL/ACE*T NABL *T HABL *T	T SES *T LSES *T ABL *T LABL*T HABL*T	<u>≤0</u> 0 +	-0.438 0.009 0.775	+ 0.002	≥0 0 0 + +	-0.236 0.000 -0.002 -0.062 0.421
$\overline{\mathbb{R}^2}$			0.59	0.04		0.52
N N			3150	2717		2717

better
,,match" and ,,focus" of instruction!

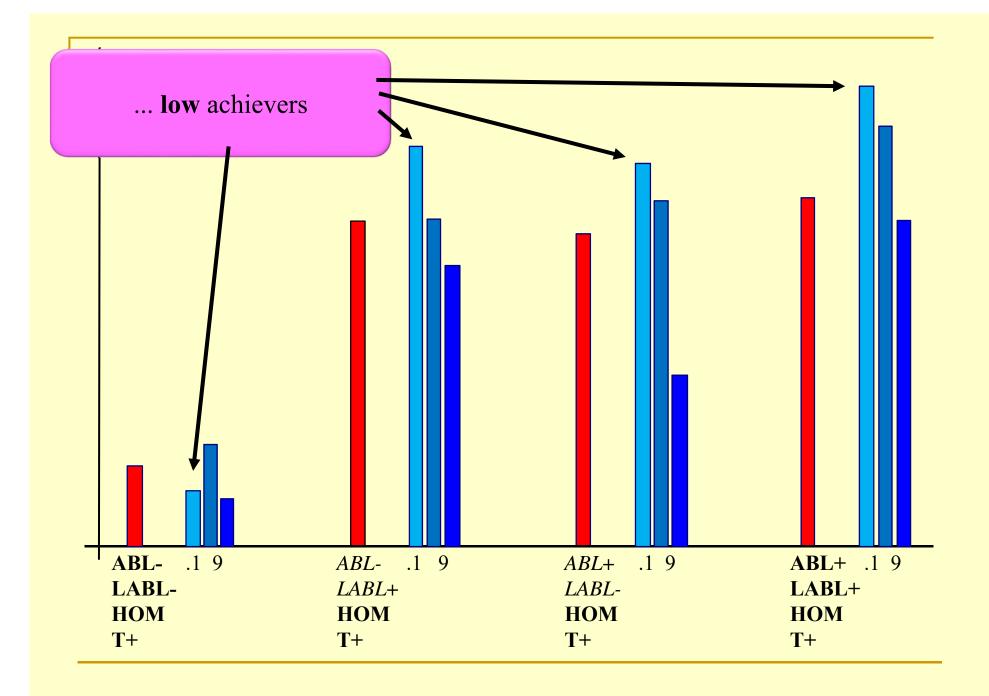
stronger incentives for engaged instruction!

- 1. Attainment
- 2. Homogenization
- 3. Achievement
- 4. Homogeneity&Homogenization
- 5. Who Gains?

dummies for ABL, LABL, T and HET/HOM



- 1. Attainment
- 2. Homogenization
- 3. Achievement
- 4. Homogeneity&Homogenization
- 5. Who Gains?





Ability Tracking improves achievement

... without increasing educational inequality and inequity ...

... via ABLHomogeneity and
-Homogenization

... and **gains** especially for **low** achievers!

